

Week Of April 23-29 Designated As 'Spring Clean-Up' In Y-12

Coordinated Efforts Of Every Y-12er Will Be Required To Brighten Up Plant's Looks

Y-12ers are donning their aprons and dust-caps in preparation for Spring Clean-Up Week, to be observed the week of April 23-29. In a plant bulletin issued a few days ago, Y-12 Plant Superintendent R. G. Jordan stated:

"The week of April 23 through 29, 1961 will be observed as Spring Clean-Up Week in the Y-12 Plant.

"All supervisors should coordinate their efforts during this week and clean-up their areas both inside and outside buildings. Considerable progress has been made to make the plant more attractive and rubbish-free. Each division and department in the plant should continue to make every effort to remove all excess material which could be a fire or accident hazard.

Coordinators To Assist

"Maintenance Division supervisors will work with coordinators and remove excess material and rubbish after it is accumulated. The Fire Department will assist in any possible way to make Spring Clean-Up Week a success.

"The disposition of hazardous chemicals will be handled in accordance with existing procedures."

The purpose of Spring Clean-Up Week is to make Y-12 a cleaner, safer, more pleasant place to work. During the winter months much rubbish, and other materials no longer needed, accumulate both inside and outside the buildings. With the efforts of all Y-12ers putting forth a little extra effort, the plant can be put in good order.

Each Division Represented

Fire Captain W. R. McGill, of the Y-12 Plant Protection Department, has asked all superintendents to appoint a coordinator from each division to assist in the inspection and clean up of offices, locker rooms, lockers, work shops, tool rooms, boiler rooms, vaults, laboratories, aisles, exits and stairways, access to firefighting equipment, loading platforms and docks, out-buildings, and premises around the buildings.

Safety meetings throughout the plant are stressing the clean-up activities during this month.

The Y-12 Security Department also is asking for a review of files to dispose of obsolete, and unneeded excess classified documents. Documented items must be disposed of by established security procedures. Undocumented confidential waste may be deposited in burn barrels throughout the plant, disposed of, of course, in the procedures set forth by the Security Department. Many classified documents could probably be downgraded or declassified. These should be submitted to classification authorities for review.

Only through the coordinated efforts of all Y-12ers can the clean-up campaign be successful. The individual "extra push" is being asked from everyone.

Accumulated trash or rubbish may be disposed of in the general plant area by calling the Salvage Department, plant phone 7972.

U.S. AIDS ISRAEL

A loan of \$2,600,000 from the United States will enable Israel to equip its new airport at Lod.

Chemicals' Future Is Brightened By Trend

UCC Has Been Among Leaders Since 1920

The Texas City Carbide News—a quarterly publication by Union Carbide Chemicals Company—declares the future of the chemical industry looks bright. The market experts are going out on a limb and predicting that production will have to double within the next five years if the industry is to meet the growing needs of its customers, says the publication.

Even 1959 was a record year for many chemical companies. The News points out, despite the fact that one of the industry's best customers—steel—was shut down for 116 days.

Ever since its inception in 1920, Union Carbide Corporation has been one of the leaders in the industry. UCC has been able to maintain and strengthen that leadership in a highly competitive and rapidly expanding industry largely because of top management's policy of high investment in research.

To keep sales trends moving upward, most chemical companies put three to four per cent of total sales into research projects. Carbide believes in research so strongly that the Corporation sets aside nearly six per cent of sales for research expenditures. This policy has paid off in a continuous flow of new products and constant improvement of old ones.

Therefore, says The News, it seems a safe prediction that Carbide will earn a good share of the increased market for the Sixties. This will require expansion and modernization of existing plants and building new ones.

Exhibit May Be Viewed At AEC's Gas-Cooled Reactor

A new exhibit has been placed on display at the Atomic Energy Commission's Experimental Gas-Cooled Reactor site in Oak Ridge.

The display case, which contains photographs and explanatory material, is located on a visitors' observation deck overlooking the reactor construction area. The reactor will be completed next year.

New AEC Film, 'Atoms On The Farm', Is Available

A new motion picture film—"Atoms on the Farm"—has just been released by the Atomic Energy Commission.

The 12-minute color film, in 16 mm, summarizes the Commission's exhibit at the World Agricultural Fair in India. It is available for loan, without cost, from the Public Information Office, AEC, Oak Ridge, Tennessee.



FIRST PRIZE WINNER IN THE MARCH POSTER CONTEST, Don Vandergriff, from Y-12's Sunflower Shop, is shown accepting his food slicer from Clarence Johnson, engineer in the Safety Department. At right is Roger F. Hibbs, Superintendent of the Technical Division, awarding Martin L. Crisp, Production Inspection, second place in the poster contest. Both Vandergriff and Crisp submitted superior ideas on "off-the-job accidents" along with many other excellent ideas from other Y-12ers.

Two Y-12ers Capture March Safety Poster Contest With 'Off-Job' Accident Ideas

Don Vandergriff And Martin Crisp Take Home Excellent Prizes For June Slogan Suggestions

The Safety poster contest for March closed with many fine entries on "off-the-job accidents." The difficult job of judging produced two winners with Don Vandergriff, Sunflower Shop, taking top prize, and Martin L. Crisp, Production Inspection, taking second place. The poster winner will be used in the June safety campaign.

Vandergriff's excellent poster, which took the food slicer prize, depicted activities at home, at

play, and on the highway. This poster will be reproduced and used extensively throughout the plant. The second prize, Crisp's "Danger Lurks on Vacation and at Home," won for him the safety flammable liquid container. In announcing the winners, the Safety Department stressed the complications in judging for this particular month, because of the many fine ideas submitted.

New Theme Given

Meanwhile, Safety announces this month's theme as "Prevention of Temperature and Chemical Burns," which offers Y-12ers a variety of thoughts for the July campaign. First prize in this contest will be a folding aluminum picnic table, and second prize is an ice crusher. Pictures of these awards are on page four.

Deadline for entry in April's contest will be Monday, April 30.

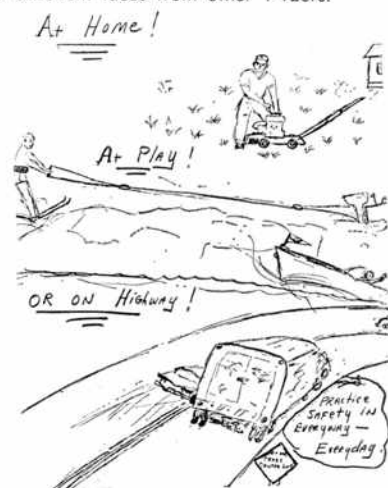
The rules for entering the contest are simple. The sketch can be roughly drawn (no particular artistic talent is required) on paper eight and one-half inches by 11. Any employee in the Y-12 Plant is eligible to enter, as well as members of his family.

More Than One Entry

The name, badge number, and department number must accompany each entry. A person may enter as many ideas in any one contest as he pleases. Only previous winners are ineligible to enter the competition.

The posters become the property of the Safety Department, and no poster, whether it won or not, can be returned. The winning slogan will be used in poster campaigns in the plant. Wording on

Continued on Page 4



OFF-JOB ACCIDENTS depicted in above sketch was Don Vandergriff's contribution to the poster contest held in March. The first-prize winning idea will be used in June posters in the Y-12 Plant. Vandergriff is in Y-12's Sunflower Shop.

Friday Is Deadline To Pick Up Awards

Delivery Not Set For Corning Ware Awards

Y-12ers, who for one reason or the other, have not picked up their big safety awards, are reminded that Friday, April 14, 1961, is the deadline for such a pick-up. The awards, covering the 10,307,137 accident-free hours, are for the 26th Union Carbide Nuclear Company Safety Period and cover the period from December 11, 1959, to October 16, 1960.

The Corning ware is the remaining selection to be issued. The Safety Department lacks final delivery notice on these items, but will inform those selecting the cookware when it is ready to be picked up.

The awards belonging to employees who have not received their selections may be obtained at the Safety Department Office, Room 152, Bldg. 9704-2.

Fusion Film To Be Shown At AIEE Meeting Tomorrow

A movie, "Research Into Controlled Fusion," will be shown at the American Institute of Electric Engineers' meeting tomorrow night, Thursday, April 13 at 7:30 pm in the Coral Room of the Oak Ridge Recreation Hall. The color movie, with sound, is highly recommended by the local section of the AIEE. The public is invited to the meeting.



Although returns are supposed to be in the hands of the Collector of Internal Revenue by closing time (midnight of the 17th), a postmark on the return will suffice to get the return in under the deadline.

A statement of income, issued to all employees shortly after the first of the year, must accompany all returns. This form also informs the employee how much social security benefits he has paid during the year, as well as the amount of tax withheld for 1960 taxes.

The Internal Revenue Department also stresses the fact that "Refund" should be marked on the outside of the return to expedite the return of funds due. It is doubtful at this stage whether there are any "refund" customers among IRS patrons.

SAFETY SCOREBOARD

The Y-12 Plant Has
Operated
20 Days Or
633,000 Man-Hours
(Unofficial Estimate)
Without A Disabling
Injury
Through April 9
Phone 7755
For Daily Report
On Accident-Free Hours

The Bulletin

Published Weekly By And For
Y-12 Employees Of
UNION CARBIDE
NUCLEAR COMPANY
Division Of
UNION CARBIDE CORPORATION

JAMES A. YOUNG Editor

GEORGE W. DOBBS Editor
Emeritus

OFFICE

Post Office Box Y
Oak Ridge, Tenn.

Bldg. 9704-2 Room 149
Telephones 7100-7109

Y-12ers With 15, 10 Years Company Service

Congratulations to the following Y-12 employees who will observe ten years of Company Service in the next few days. No employees are listed with 15 years Company Service during this period.

10 YEARS

Joseph H. Milligan, Alpha Four Cascade Operations, April 12.
Benjamin M. Alford, Buildings and Grounds, April 13.
Roy C. Crawford, General Machine Shop, April 13.
Gurnie D. Treece, Research Service, April 13.
James B. Strickland, Research Services, April 16.
Robert E. Lively, General Machine Shop, April 16.
Lawrence O. Heath, Jr., Product Processing, April 16.
J. D. Hall, Radiation Safety, April 16.
Wyatt Atwood, Process Maintenance, April 16.
Katy B. Gulley, Product Processing, April 16.
Earl H. Johnson, General Machine Shop, April 16.
Troy E. Brantley, Beryllium Fabrication, April 16.
Fred A. Harris, Sunflower Foundry, April 17.
Lon C. Dunsmore, Product Processing, April 17.
George H. Caylor, Beta Two, April 17.
Emory E. Burns, General Machine Shop, April 17.
Robert Q. Love, Z Area, April 17.
Kinser C. Blankenship, Production Inspection, April 18.
Dorothy H. Wiginton, Chemical, April 18.
David A. Prueitt, Area Maintenance, April 18.
Keith F. Martin, Process Maintenance, April 18.
Kenneth E. Smith, Industrial Engineering, April 18.
Fred Helegsen, Tool Grinding, April 18.
James N. Brewer, General Machine Shop, April 18.

Space Conference Planned For April In Gatlinburg

A space nuclear conference is being planned by the Oak Ridge National Laboratory and the American Rocket Society, to be held in Gatlinburg, Tenn., May 3, 4 and 5.

Engineers and scientists from the ARS and from the atomic energy program of ORNL will host the conference. Featured speakers of the conference will be Bengt Stromgren, astrophysicist from the Institute of Advanced Studies, Princeton University; Wernher von Braun, Director of the Marshall Space Flight Center; Dr. Alvin M. Weinberg, Director of ORNL; Harold B. Finger, from the AEC-NASA Nuclear Propulsion Office; Brig. Gen. Austin W. Betts, Director of Military Applications for the AEC; and Dr. G. T. Seaborg, Chairman of the U.S. AEC.

Ambition without application never broke any records.



Y-12ers are reminded (see story on front page) that week after next is 'Spring Clean-Up' Week . . . and it's a pretty difficult thing to sit and hear the birds outside, and know the dogwoods are bustin' outa their buds, and somewhere the crappies are biting. Before the brooms are dragged out by wholesale lot, let's sweep around for some plant news—

CHEMICAL

From the uranium recovery end of Product Processing comes word that **T. W. Osborne, Jr.** is vacationing in Jacksboro getting acquainted with little Cheryl, his new daughter born April 3 . . . **Florenes Archer** is at home, happy to see his daughter visiting home-folks from Charlestown, Ind. . . **Dave Hoskins** took last week to spend some time with his mother who is ill, and speedy wishes are sent her way.

From Chemical comes news that **Milo Ward** and **Jackie** took off to Johnson City, Tenn., and Gate City, Va., taking along the little one to introduce him to Jackie's folks. Milo naturally came back talking about the good country cooking up thataway . . . **C. P. McDaniel** visited relatives in Chattanooga recently . . . Mrs. **A. A. Baer** is in the hospital, and everyone wishes a speedy recovery for her . . . a red carpet is rolled out again for co-opper **R. W. Stevens** from down Ramblin' Wreck way . . . and **Jo Ann** and **Ed Isham** visited recently in Corbin, Ky.

Product Processing speeds good wishes for a speedy recovery to **Edith Duckworth**, off recovering from surgery.

Science has provided so many substitutes in recent times that it is hard to remember what it was we needed in the first place.

TECHNICAL

After the dismal winter, the coming of Spring brought forth various members of the Beta Four Special Projects Department, as well as Easter lilies . . . **Margaret Williams** took off for Birmingham, Ala. . . while **Ken Bernander** and his family edged deeper into Delta country . . . **H. E. Buckminster** also went thataway—to Oxford, Ga. (In case, nobody knows what or where Oxford is—that's the birthplace of Emory University) . . . **Sam Rea** with all his tax deductions climbed into "The Chariot" and rolled over to Asheville, N.C. . . the **George Lockhart's** son, **Buck**, was out of school and back to the nest for the Easter holidays . . . Other outings during the holy season saw **Jim Kennedy** and spouse hiking, **Dick Cawood** making like a gopher landscaping in the yards . . . and (this is actually what it says here, we'll have to see it to believe it) **Kay Sideris** has her foot in a sling after recent surgery.

It's no wonder men lie so much . . . women keep asking too many questions.

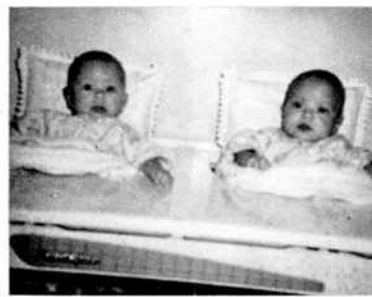
MAINTENANCE

Research Services sends condolences to **W. H. Hatfield** whose mother died last week.

INDUSTRIAL RELATIONS

Labor Relations sends get well wishes to **Bob Harte**, off a spell with surgery.

From Fire and Guard is heard the word that **M. L. Sullivan** was welcomed back after a long but successful bout with surgery . . . **S. H. Murphy's** wife is ill and a speedy recovery is wished for her . . . **S. L. Ray** is taking off next week to visit his son in Nashville, Ga. . . Presented below are **Guard H. J. Ballew's** new twin granddaughters—**Lana May** and **Lena Marie Ballew**—only three months old—their father **Jesse J.** is serving with the United States Navy in Hong Kong. No wonder



Lana and Lena Ballew

there are smiles around the Ballew household. Here's two good reasons to smile all the time!

Boy Friend: "I'm not saying she's a bad cook, but now I know why her family prays before every meal."

SHIFT SUPERINTENDENTS AND UTILITIES

Utilities sends along word welcoming **J. R. DeMonburn** into the department . . . **E. A. Wells** and **J. Y. Burchfield** decided to stay at home this week on their vacations . . . **E. S. Smith** and family are visiting in Tampa, Fla. . . **L. M. Adams** is visiting relatives in Murfreesboro and Nashville this week . . . Sympathy is extended to **E. J. Garrett**, whose father died in La Follette, April 4, and to **G. F. Carson**, whose grandfather, **J. C. Carson**, passed away in Onedia, Tenn. . . Get well wishes are rushed to **R. W. Chrisman** in St. Mary's Hospital . . . **C. A. Cox** visited relatives in New Tazewell, Tenn., and managed to get in some fishing . . . **C. F. Meadors** is the proud papa of a new 16-foot fiberglass with a 75 hp booster attached to the rear-end, and skis yet, **C. F.?** . . . **J. A. Woods** long-broke last week-end finishing his new home and landscaping around it . . . **A. J. Edwards** will attempt to flood the market with fresh fish, if he doesn't have the wrong kind of bait, which he usually does . . . **G. R. Beasley** is welcomed back to work after quite a siege, everyone was happy to see him . . . **E. M. Baird** is still talking about the big surprise for his wife **Maude** on her birthday, April 8.

It's funny that a woman can see right through you, but can never notice a missing button.

FINANCE AND MATERIALS

Glenn Kindred, Timekeeping, is vacationing getting some deep-sea fishing in around Key West, Fla. From Plant Records comes word that **Helen Cunningham** is vacationing at home in Oak Ridge and will be visiting relatives in Maryville.

Engineering Records records that **J. M. McMaster** is in Jackson, Tenn., visiting relatives.

Girl: There are a lot of people who don't pet in parked cars.
Boy: Si, the woods are full of them.

MECHANICAL OPERATIONS

The General Machine Shop Speeds get well wishes to **E. R. Easterday**, ill at home . . . **Bob Horton's** little boy had the measles recently, now **Bob** is confined with the same ailment. **L. H. Clowers** is vacationing at home taking it easy . . . **Bob Kelley** is on the ailing list and best wishes to him . . . **Guy Tate** vacationed in West Tennessee seeing relatives . . . **Ed Armstrong's** son is recuperating in the Oak Ridge Hospital



Get well wishes are sent the following Y-12 employees who were patients last week in the Oak Ridge Hospital:

Perry Suber, Buildings and Grounds; **Bob Harte**, Labor Relations; **R. E. Douglas** and **N. L. Derryberry**, Electrical; **J. P. Cavanaugh**, Machine Maintenance; **E. C. Cox**, Beta Two; **James M. Patterson** and **Harold H. Bright**, Sunflower Shop; **E. A. Marler**, **F. I. Rigney**, and **George Edmonds**, Mechanical Maintenance.

after injuries sustained at school . . . **Sam Lindsay** took off down Florida way . . . **Newman Wise** vacationed in Jackson, Tenn. and was a delegate to the Woodmen of the World conference . . . **Ed Hargis** vacationed to meet his new baby, and reports many changes around the household . . . **L. E. Abrams** vacationed at home in Clinton, and managed to squeeze in some fishing . . . **Irene Taylor** is being welcomed into the group . . . she came over from ORNL . . . lives in Oak Ridge . . . **Sylvester Smith** vacationed in Georgia . . . and **Daryl Bowen** is real proud of the old man, **D. C.** (he's in Utilities) for winning his second pencil in his Dale Carnegie course recently . . .

That golf-match from Rolling and Forming between **Joe Williams** and **Jim Patterson** didn't come off as planned . . . **Pat** came down with some mysterious ailment which confined him to the hospital . . . the last word from that direction was that he was fussing and fuming, wanting out so he could come back to work. The R & F folks are welcoming in **Bob Williams** from ORGDP, and likewise **E. E. Ladd**. Speedy recovery wishes are wafted to **L. H. Russell** and **James P. Murray** . . . vacationers from the F Area are **G. J. Walls**, **R. S. Hayes**, **D. A. Matlock**, **H. D. Brock**, **E. Cooper**, none of whom said where they were going . . . **Joe Dick** in H-2 is vacationing on some lake somewhere . . . the folks will miss **C. E. Dugger**, **M. F. Duke**, and **R. J. Johnson**, who transferred to Beryllium Shop. The shop also reports vacationers **Stockton Rucker** to Orlando, Fla., **Bill Carey** to Clearwater, **Leroy Taylor** to the Sunshine State visiting around Carrabelle.

Have you heard the one about the man who took his Great Dane to the vet psychiatrist? He was concerned because his dog chased small foreign cars.

"That's nothing to worry about," the vet explained, "it's only natural for dogs to chase cars."

"I know that," agreed the man, "but mine chases them and buries them in the back yard."

That's all for this time, you'n's come.

Learn, know and abide by the security regulations.



Laboratory Develops Meter From Antique

W. T. McBryde Finds Junkyard Instrument

Necessity has often been called the mother of invention. And while The Bulletin usually reports patent awards and new developments by employees in Y-12, sometimes little stories get lost behind the headlines proving the insatiable curiosity and mental ability man possesses often bring about a new development. Thus, necessity mothered the following incident recently.

It all started seven or eight years ago when a mercurimeter was installed in the Laboratory to measure the total amount of mercury in a sample accurately. William T. McBryde, of Y-12's Special Testing Department, brought a 5 kw house meter from his old homestead in Mississippi to measure the flow of electricity into the delicate mercurimeter. This type meter hasn't been used on homes since the early twenties, and would at that time only accommodate five 100 watt light bulbs at the most. Purchase of such a meter was virtually an impossibility . . . they just weren't made anymore.

Antique Quits
The problem was all solved, and the development by Special Testing worked fine utilizing the antique brought up from a Mississippi farmhouse . . . that is, it was solved until two weeks ago when the old meter burned out.

Knowing it was next to impossible to construct one of the meters, and purchasing a new one was surely out of the question, Mack's back never got to the wall. He, and other members of the department, started searching. One of the old-type meters was found in a junk-heap in Clinton. The instrument was built in 1926, and has long since out-lived its usefulness.

Science Marches On

Now, thanks to the Clinton Power and Water Commission, particularly Howard Sparkman; to the perseverance of Bill McBryde; and to the out-dated house meter, the mercurimeter is back in operation.

Science does march on!

Nuclear Society To Discuss SL-1 Reactor Accident

The Oak Ridge Section of the American Nuclear Society's next meeting will be held at 7:30 p.m. next Wednesday, April 19, in the Green Room of the Ridge Recreation Hall, Oak Ridge.

Featured speaker of the meeting will be Dr. William Ergen, Oak Ridge National Laboratory physicist, who will discuss the recent SL-1 reactor incident at the National Reactor Testing Station at Idaho Falls, Idaho.

The SL-1 reactor is the United States Army's stationery low-power, direct-cycle, boiling-water reactor experiment. The plant was being developed for future application at remote military installations such as the DEW line, when the incident occurred. Slides of the reactor will be shown as well as post-accident movies.

Ergen serves as a member of the Atomic Energy Commission's Committee for Reactor Safety, and was recently appointed as a consultant to the Special Board of Investigation for the SL-1 accident.

HOME FREEZERS INCREASE

The number of home freezers on American farms increased from 650,000 in 1950 to 2,000,000 in 1960.

Scrappers Take Mixed Finals

Play-Off Scheduled To Determine Champs

The Mixed League of Y-12 bowlers really got "mixed-up" in action last week as the Scrappers took the second half from the Toppers by sweeping the score-sheet with four full points, blasting the Goofers. This necessitated a play-off between the Scrappers, and the Toppers, who took the first half of the league.

Another four-pointer was gained as the Nip and Tucks nipped the victory-minded Toppers. Three-pointers were taken by the Phantoms over the Pin Plasters, and the Alley Cats over the Cool Cats.

Top female pin-busters of the event saw Ruby O'Kain with a 213 scratch game, boasted to a 238 in handicap, and a scratch series score of 563. Only Joyce Gillihan, of the Nip and Tucks, stopped Ruby from sweeping the board with a record-breaking 666 in handicap series games. Top male bowlers were Roy Roberts, Cool Cats, with a 234 scratch game; Joe Beaver, Alley Cats, with a 241 handicap score; Roberts again with a 599 scratch series; and Beaver with a 634 handicap series score.

The Nip and Tucks took most honors with 708 scratch score, 849 handicap singles; and a 2439 handicap series. The Toppers eked out a 2020 in team scratch singles.

Team	W	L
Scrappers	43	13
Toppers	40½	15½
Pin Plasters	30	36
Nip and Tucks	29½	26½
Goofers	24½	31½
Phantoms	22½	33½
Cool Cats	17½	38½
Alley Cats	16½	39½

The play-off between the top contenders, the Scrappers and the Toppers will be reported in next week's Bulletin.

Harriman Golfers Start Early League Play With 10 Teams

The first tee-off of the season went to the Harriman Golf League, as play got underway Monday, April 10. The league, for the three UCC plants in Oak Ridge, will score points on the usual basis of four.

Hobey Thomas, ORNL employee in the Y-12 area, is league secretary. The events will be nine hole matches. The match medal system will be used, that is, a player will be credited with one point if he defeats his opponent in match play. Two points will be awarded for low net team score. The highest possible total for a team will be four points.

The ten teams participating in the Harriman League are listed as follows:

THE EAGLES — Bruce Isham and Benny Crass; W. T. Martin, alternate.

PROTONS — Bill Hamill and Hobey Thomas.

LOOK-OUTS — Joe Kidd and Jim O'Keefe; Tom Pickel, alternate.

HOOKERS — Jim Winters and Harris Creswell.

SLICED NEUTRONS — John Franzreb and Ed Ellis; George Warlick, alternate.

STRAIGHT KNOCKERS — Bob Lynn and Allan True.

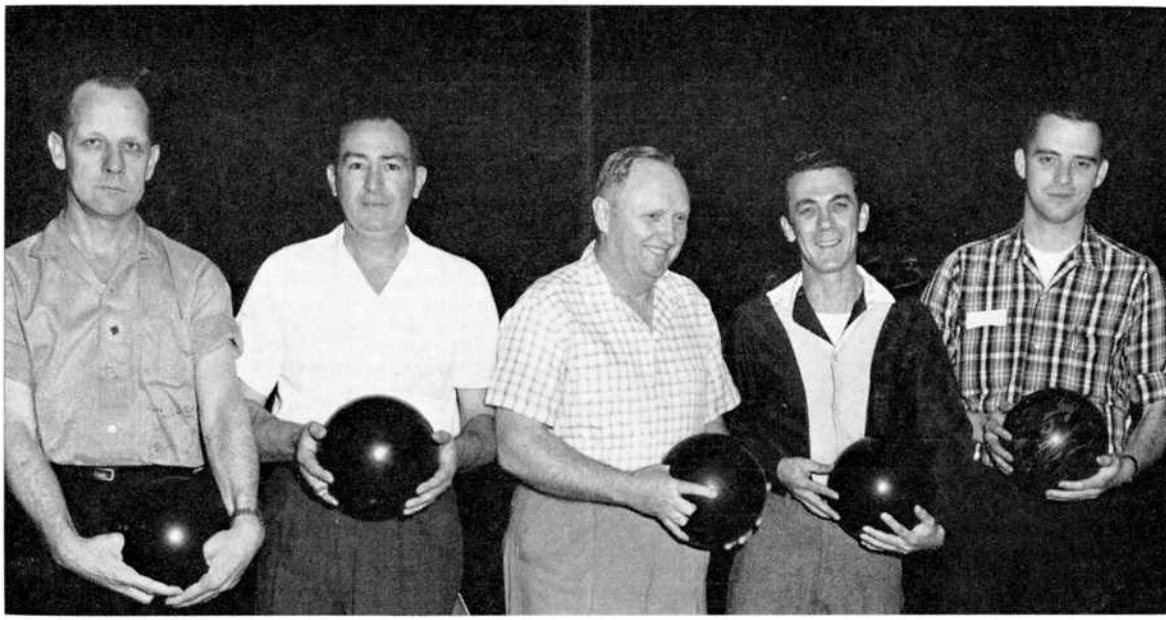
THREE B's — W. H. Brown and J. H. Buttram; L. E. Brown, alternate.

DIVOT DIGGERS — Bob Tilley and Ted Wilmarth; Leo Scalf, alternate.

CHIPPERS — Warren Grimes and Dave Cuneo.

PAR-FLIES — John Evans and E. S. Henck.

The first half of league play will cover the period from April 10 through June 11, and the second period will cover from June 12 through August 13.



BIG CHAMPS OF THE BUSH LEAGUE, the Pin Busters, are shown above. From left are W. C. Caldwell, R. E. Worley, G. G. Cantrell, H. G. Dyer, and Don Davidson, captain. Not shown are P. W. Pless and C. W. Ridings, who helped teammates along in last-half play of the regular league. The roll-off, staged April 3, gave the Pin Busters undisputed claim to the throne after they clobbered the Beavers, winners of the first half of play.

Bumpers Take Second Half In Classic

The Classic League for Y-12 bowlers wound up their last half of league play with the Bumpers taking the title in a path of glory by belting the Sportsmen by four points. Thus, another league faces a roll-off as the Bumpers meet the Rippers, winners of the first-half, this week. Other final postings gave three point wins to the Swingsters over the Tigers; Smelters over the Wolves; Rippers over the Has Beens; Wasps over the Playboys; All Stars over the Rebels; and the Cubs over the Screwballs. Last place Markers split two points with the Eightballs.

Top single scoring for the final regular league play was in the hands of Dick Huber, All Stars, with a 240 scratch game, broadened to a 256 in handicap singles. Arnold Tiller, Rebels, took all series tops with a 630 and 678. The Swingsters swept the board clean in team tops with 1037, 1124, 2711, and 2972.

The Classic League saw some classy bowling all during the season, both in first and second half play.



Tudor Boyd

was so numb, I didn't even know what I was doing," he explains. Tudor's other highs stand in total league play as his high single handicap game was 317, his series plays 737 and 827.

Final League standing follows:

Team	W	L
Bumpers	46	14
Swingsters	40	20
Smelters	40	20
Rippers	35½	24½
All Stars	35	25
Sportsmen	33	27
Wasps	33	27
Has Beens	31½	28½
Rebels	29	31
Cubs	28	32
Eight Balls	25	35
Wolves	22	38
Screwballs	21½	38½
Tigers	21	39
Playboys	21	39
Markers	18½	41½



Pin Busters Take Championship In Bush League's Tight Race

Roll-Off Gives Beavers Second Place; L. B. Cabe's Scratch Game Of 278 Is Pacer

Second-half finalists in the Bush League for Y-12 bowlers, the Pin Busters, last week trounced the Beavers to take undisputed title of champions in the league play. The roll-off which was staged Monday, April 3, involved winners in first and second half of league play.

In individual play, the old red-head of the Pin Busters, George Cantrell, led the scoring by sweeping the board clean, posting scores of 225, 243, 639, 693. In team action league-winning Pin Busters stormed the roll-off with scores of 895, 1013, 2639, and 3011.

The losing Beavers, who finished fourth in the final half of play, are runners-up for top bowlers of the league.

High individual scratch and handicap man of the year for the Bush League was L. B. Cabe, Lucky Five, with a fine 278, and 307. Top series scratch and handicap man of the year was Harold Zang, Balls O'Fire, with 684, and 711. Cabe's 278 game is topped in entire league play only by Tudor



L. B. Cabe **Harold Zang**

Boyd, of the Markers team, in the Classic League, when Tudor came so close to rolling that perfect game, October 20, 1960, with his sizzling 287.

MAJOR SPICE GROWN

The only major spice grown in the western hemisphere is the highly-prized allspice.

Softball Meets Set By Recreation

Slow-pitch soft-ball players are being called together for an organizational meeting by the Recreation Department at 4:30 pm Tuesday, April 18. Managers with teams already organized should attend the meeting, and members wishing to play on any team should be present also.

Play is scheduled to get underway the first part of May. It has not yet been determined whether there will be inter-plant schedules. If there are enough teams entered in the league from Y-12, it will be a plant league only.

Meanwhile, in a preliminary

Y-12 Atoms Lose To All Stars

ORGDP Basketeers Turn Pressure On In Finals

In final action of the Carbide Baseball Tournament, the Y-12 Atoms fell victims of the All Stars from Oak Ridge Gaseous Diffusion Plant Monday, April 4, to the tune of 60 to 43.

Despite a lead of eight points at the end of the first period, and another lead at the end of the second quarter of 11, the Y-12ers relaxed in the third and fourth periods to let the ORGDPers trounce them.

High-man of the game was the Atoms' Jim George with a mighty 24. For the victors, MIT's Jim Mottley led the pack with 23 and Rene Rodriguez followed closely behind with 19. The lanky Rodriguez also turned in a brilliant defensive game especially in the final moments of the game, holding the Atoms to only four points in the final quarter.

The All Stars suffered their only defeat in the entire tournament at the hands of the Atoms. Double elimination, however, forced a play-off between the two teams.

The winners in the tilt scored 21 of their total 60 points in the final quarter.

The Y-12 Reactors, regular season champs, were ousted early in the tournament action, losing one to the All Stars and one to the Atoms.



ZESTFUL ATOMS LACKED THAT FINAL STRENGTH to take them over the top in the Carbide Basketball Tournament last week, as they lost in final play to the ORGDP All Stars, 60 to 43. First row, from left, are Kendall Brady, Frank Clayton, associate manager; D. W. Daws, manager; Jerry Babb, Edd Cothran, and Jim George. In the second row are Bob Easterday, Ralph Vaughn, Bob Miles, Jerry Davis, and Buddy Scott.

First Golf Tourney Of Year Called For Maryville Greens

The first golf tournament of the year will be staged among Y-12ers, Saturday, April 29 at the Green Meadow Country Club course, Maryville. Tee-off time is 7 a.m. Play is open to foursomes only.

Times will be assigned in the Recreation Office at 7:30 a.m., Thursday morning, April 20. A single individual can request time for only one foursome. No telephone entries for tee-off times may be assigned until all those attending the Recreation meeting have had times assigned to them.

Prizes in the tournament will be 22 dozen golfballs for top turf-teasers. The Recreation Office is located in Room 149, Bldg. 9704-2.

survey the Recreation Department has indicated very little, if any, interest in fast pitch ball this season. If there are those who wish to play fast pitch, however, they may attend the meeting set for 4:30 pm, Wednesday, April 19 in the Recreation Office, Room 149, Bldg. 9704-2.

Team Winners In All-Carbide Roll Are ORGDPers

Two Oak Ridge Gaseous Diffusion Plant teams took top honors in the All Carbide Bowling Tournament held last week-end at Ark Lanes, Oak Ridge. The teams were the Sand Baggers, who took top scratch game with 2814, and the Flub Dubs, who took handicaps tops with a 3082.

Placing high in the winning column were the two Y-12 teams the Has Beens and the Beta Fours, with high handicap scores of 2919 and 2915 consecutively.

In the women's section top scratch scores were rolled by the ORGDP Purchettes, with 2159, and the Pin Ups, another ORGDP female team took handicap honors with 2881. A fine 2776 was taken in handicap play by the Y-12 Nip and Tucks.

All teams have bowled as teams in the match. This week-end will see the doubles, and singles competition, and all events winners will be announced.

Loose talk is like the proverbial empty gun—it often kills.

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New Cars Utilize Various Plastics

An automotive trend was started nearly 50 years ago with the first use of the first all-synthetic plastic—Union Carbide's Bakelite phenolic—in the ignition system. At the National Automotive Show held in Detroit last fall, engineers reported that the 1961 models use an average of more than 22 pounds of plastics throughout the car—and this does not include plastic upholstery material nor interior and exterior finish.

Where plastics were used at only two or three places in the automobile of grandfather's time, today's driver is surrounded by plastics on every side. In fact, the automobile, as we know it today, simply could not exist without plastics.

Vinyl, polyethylene and phenolic as insulating materials are vital to the entire electrical system. The fast, reliable stopping ability is due to phenolic-bonded brake liners. The metal of the body is protected by gleaming plastic finishes in a myriad of colors. At over a hundred other points in the automobile, plastics play their role as functional and decorative components.

More than 75 types and varieties of plastics are supplied to the automotive industry by Union Carbide Plastics Company today—a far cry from the one Bakelite phenolic first introduced in the automobile half a century ago.

Commission Pays City April Financial Aid Of \$287,000

The Atomic Energy Commission has paid \$287,000 to the City of Oak Ridge as assistance for the month of April.

The check was issued last week. Under Federal law, the Commission is required to provide financial aid, as necessary, during the city's first ten years of operation.



AMONG THE MANY uses of plastics in the automotive industry is a tough, colorful spare tire cover made of Bakelite high-density polyethylene.

Technical Information Site To Expand Office Space

Bids will be opened April 25 for modifications to the Atomic Energy Commission's Office of Technical Information Extension in Oak Ridge.

Last year, OTI Extension gained an additional 20,000 square feet of floor space, completely occupying the large brick building near Oak Ridge's Elza Gate. The added area permits consolidation of some units which previously had been scattered. The modification work will provide additional plant and office space.

D Shifters' Fishing Rodeo Set At Blue Springs Dock

All D Shifters are talking about the big Fishing Rodeo planned for tomorrow, Thursday, April 13, at the Blue Springs Boat Dock. Hours of the rodeo are from 12:01 am until 5 pm.

A variety of fine prizes are offered for best fish as well as a dock prize. Free launching is tendered all Y-12ers, and free coffee on the grounds.

Big Five Clings To C League Lead

The Big five clung to their precarious lead in the C League for Y-12 bowlers last week by taking the Par Busters by three points. In the April 3 action, previous second place SPs fell victims to the Alley Cats as the Cats clawed out three points also, qualifying them for the close second place. Other three-point wins were the Hilifers over the Sunflowers, and the IBMs over the Beta Fours. The only two complete routs of the night were the C Shift over the Hookers, and the Chillers over the Ramblers.

A complete sweep of individual scoring was accomplished by Gordon Butters, Alley Cats, with fine scores of 246, 267, 622, and 691. The IBMs took scratch honors in singles and series play with 917 and 2600, while the Alley Cats took handicap singles with a 1039. The C Shift aggregate took handicap series tops with 2952.

League standing follows:

Team	W	L
Big Five	43	21
Alley Cats	39	25
C Shift	39	25
SPs	38	26
Hilifers	34	30
IBMs	33	31
Chillers	32	32
Beta Fours	31	33
Hookers	28	36
Ramblers	27	37
Par Busters	23	41
Sunflowers	17	47

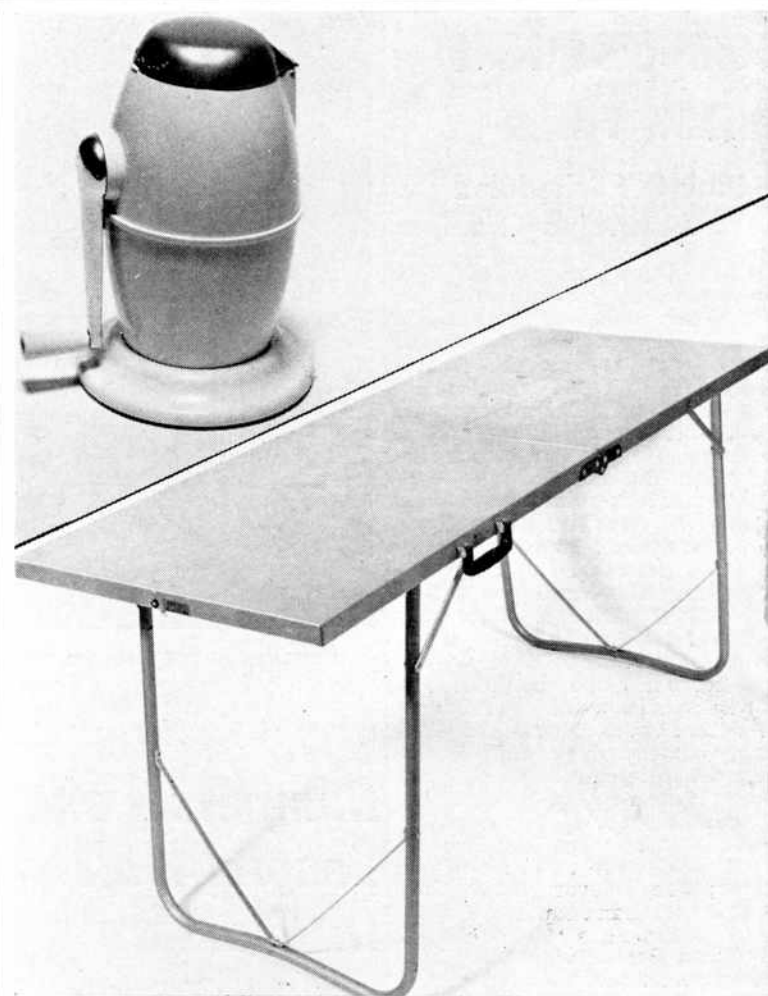


Car pool members from Pennsylvania Ave., Outer Drive and New York Ave. vicinity, Oak Ridge, to Central Portal, straight day. A. Shor, plant phone 7442, home phone Oak Ridge 483-6145.

Filtration Expert Addresses Chemical Engineers Tonight

The "Recent Advances in Continuous Filtration Technology," will be discussed at the Knoxville-Oak Ridge Section of the American Institute of Chemical Engineers meeting tonight, April 12 at 8 p.m. in the Continental Room of the Oak Terrace, Oak Ridge. Dr. D. A. Dahlstrom, vice president and director of research of the Eimco Corp., and AIChE Council member, will be the speaker.

Members are urged to attend, as well as those interested in becoming affiliated with the AIChE. A social hour will follow the meeting.



THE EXCELLENT PRIZES FOR THE APRIL POSTER contest are shown above. In the left upper corner is the second prize, an ice crusher, and the first prize, the popular folding aluminum picnic table. The theme of the contest is "prevention of fire and chemical burns," and the Safety Department is taking entries all through April.

2 Y-12ers Capture

Continued From Page 1
the poster should not exceed ten words.

The high interest shown in the contests, since their inception last winter, has given the Safety Department many fine ideas for safety drives in Y-12, as well as many excellent poster themes.

Accidents Are Fatal To Many On Farms

Accidents in 1959 killed 11,700 farm residents and injured 1,000,000. From 1950-59, 11,000,000 farm residents suffered injuries disabling beyond the day of the accident, and 130,000 farm residents were killed in accidents.

The National Safety Council, in the 1960 edition of "Accident Facts," its statistical yearbook, says the No. 1 cause during the decade of disabling injuries to farm residents were home accidents. They accounted for 5,000,000 injuries to rural people.

Training Directors To Hear State's Bearly At Meeting

The East Tennessee Chapter of the American Society of Training Directors will hold a dinner-meeting at Deane Hill Country Club, at 6:30 p.m., Friday, April 14, in Knoxville. Jack Young, of the Oak Ridge Gaseous Diffusion plants' training division, is president of the local chapter.

Featured speaker of the meet will be Frank Bearly, of the Testing Facility of the Tennessee State Employment Security Department. His subject will be "Pre-Employment Screening and Counseling."

SHOELESS TENNESSEANS

Chances are that people who ask if Tennesseans wear shoes are themselves wearing shoes made in the Volunteer State by one concern which is among the four big shoe manufacturers in the world.

Hotel room walls are a problem . . . A problem that irks me a heap . . . They are thick when you are trying to listen . . . And thin when you are trying to sleep.



SECOND PRIZE in the Safety Poster contest went to Martin L. Crisp, Production Inspection. Crisp's fine sketch won for him a three-gallon flammable liquid can.

Panel Discussion On Guides For Radiation To Be Held

The Local Chapter of the Health Physics Society will hold its next meeting at 7:30 p.m., Thursday, April 20, in the Robertsville Junior High School auditorium, Oak Ridge.

The panel program will carry the theme "Radiation Guidance Levels—Why?" and panel members will consist of Marshall Brucer, Hugh F. Henry, K. Z. Morgan, W. L. Russell, and R. L. Murphree, moderator. A question-answer period will follow. Any interested person is invited to attend the discussion.



WINDOWS IN THE OAK RIDGE STORES WERE BRIGHTENED during National Engineers' Week, February 20-26. At left is seen the American Society of Mechanical Engineers' display which was put in Loveman's. At right is the American Society of Tool and Manufacturing Engineers' window shown at Penney's. The Technical Societies' Joint Council in Oak Ridge had a total of six displays in windows throughout Oak Ridge. R. D. Ellingson, of Y-12's Beta Four Assembly and Forming, coordinated the efforts of the ASTME. Various speakers and conferences also highlighted the observance of that particular week, chosen every year as the birthday of George Washington is observed. Young Washington was a civil engineer and is regarded as the patron saint of the engineering profession.